

- Richter, Charles O.
Readiness in Mathematics. Feb., 68
- Rothman, Irwin M.
Pitfalls in the Trigonometric Solution of an Oblique Triangle. Nov., 311
- Schor, Harry
Enriching Plane Geometry with Air Navigation. Oct., 254
- Schorling, Raleigh, and others
The First Report of the Commission on Post-War Plans. May, 226
- Schreiber, Edwin W.
New York Regional Meeting of the National Council of Teachers of Mathematics. May, 222
- Sitomer, Harry
The Place of Experimentation in Plane Geometry. Mar. 122
- Smith, Alice E.
Snow White and the Seven Dwarves. Jan., 27
- Snider, Everett
Errors in Ninth Grade Algebra. April, 175
- Tobey, Wm. S.
Why Mechanical Manipulation. May, 215
- Tucker, Alice N.
Vocabulary Building. May, 233
- Van Engen, Lela
Measuring Arithmetical Achievement. May, 217
- Van Waynen, M.
How Shall Geometry Be Taught? Feb., 64
- Van Zyl, Abraham J.
The Formula—The Case of Algebra. Dec., 368
- Withers, A. M.
An Open Letter to Teachers of Mathematics. May, 212
- Woodard, Mary Ann
Arithmetic and the Defense Worker. April, 166
- Yates, Robert C.
A Grooved Mechanism. Jan., 23
- Yorke, Gertrude Cushing
A Study of Weights and Measures. Mar. 125

INDEX BY TITLES

- A Check List for Pre-Induction Mathematics. Virgil S. Mallory. Oct., 269
- A General Method for the Construction of a Mechanical Inversor. M. H. Ahrendt. Feb., 75
- A Grooved Mechanism. Robert C. Yates. Jan., 23
- A Report of the Radio Committee of the National Council of Teachers of Mathematics. A. Brown Miller. Mar., 106
- A Study of Weights and Measures. Gertrude Cushing Yorke. Mar., 125
- A Study of Weights and Measures. J. T. Johnson. May, 219
- Accurate Drawings of Three Dimensional Figures. Margaret Joseph. Dec., 350
- Analytic Geometry: The Discovery of Fermat and Descartes. Carl B. Boyer. Mar., 99
- An Open Letter to Teachers of Mathematics. A. M. Withers. May, 212
- Arithmetic and the Defense Worker. Mary Ann Woodard. Apr., 166
- Arithmetic Attitudes. C. W. Hunnicutt. Jan., 33
- Art of Teaching:
A Meaningful Unit in Indirect Measurement. Vincent J. Glennon. Jan., 34
- Errors in Ninth Grade Algebra. Everett Snider. Apr., 175
- Functioning Mathematics. Samuel I. Altwerger. Nov., 314
- Mathematics and the Armed Service Educational Program. Hale Pickett. Feb., 84
- School Situations Vitalize Mathematics. Bertha Weir Palmer. Dec., 373
- The Present Crisis in the Teaching of Mathematics. Laura E. Christman. Mar., 129
- The Use of Models in the Teaching of Plane Geometry. Frances M. Burns. Oct., 272
- Vocabulary Building. Alice N. Tucker. May, 233
- Basic Mathematics—A Key to Democracy. Ralph Mansfield. Oct., 248
- Conflicting Assumptions. Earl Murray. Feb., 57
- Continuity in Geometry. Philip Peak. Dec., 360
- Demonstration Teaching in Arithmetic by Radio. Marcella Leahy Mc Nerney. Mar., 110
- Developing the Principle of Continuity in the Teaching of Euclidean Geometry. Daniel B. Lloyd. Oct., 258
- Developing Mental Perspective and Unity of Principle in Geometry. Peter Drohan. May, 209
- Early American Geometry. Phillip S. Jones. Jan., 3
- Editorials. W. D. Reeve. Importance of Education in a Democracy. Jan., 37; A Message from the President, New Officers for the Next Two Years, The New York Meeting, Feb., 56; Dr. John A. Swenson—Mathematician and Educator, Mar., 133; The New President of the National Council of Teachers of Mathematics, A Message from the New President, In Appreciation of President Smith, Concerning Subscriptions that Expire in May, Apr., 177; Mathematics in the Post-War World, May, 234; David Eugene Smith, Oct., 278
- Enriching Plane Geometry with Air Navigation. Harry Schor. Oct., 254
- Flying High. Lillian Moore. Jan., 17
- Fun for the Mathematics Club. Jacob M. Porterfield. Dec., 354
- High School Mathematics After the War. Walter H. Carnahan. Oct., 243
- Horner's Method and the Algorithm for the Extraction of Square Roots and Cube Roots. Nelson B. Conkwright. Jan., 31
- How Shall Geometry Be Taught? M. Van Waynen. Feb., 64
- In Defense of Donald Dull. Mary A. Potter. May, 195
- Influence of the War on the Teaching of Secondary Mathematics. E. R. Breslich. Nov., 291
- In Other Periodicals. Nathan Lazar. Jan., 39; Feb., 87; Mar., 135; Apr., 179; May, 238; Oct., 280; Nov., 323; Dec., 375
- It All Began Last Winter. Edna R. Chayt. Mar., 118
- Learning and/or Mathematics. Curt Dechert. Jan., 20
- Let Us Be Sensible About It. Irwin A. Buell. Nov., 306
- Mathematics and Christmas. Kate Bell. Dec., 363
- Mathematics that Functions in War and Peace. H. C. Christofferson. Feb., 51
- Measuring Arithmetical Achievement. Lela Van Engen. May, 217

- Mortar for the House of Algebra. Paul R. Neureiter. May, 206
- National Council of Teachers of Mathematics: A Report of the Radio Committee. A. Brown Miller. Mar., 106
- New York Regional Meeting. Edwin W. Schreiber. May, 222
- Program of the New York Meeting. Feb., 88
- Report of the Treasurer. Mar., 132
- Report of the Commission on Post-War Plans May, 226
- State Representatives. Apr., 181
- New Horizons Through Integrated Mathematics. Chauncey W. Oakley. Jan., 12
- Pitfalls in the Trigonometric Solution of an Oblique Triangle. Irwin M. Rothman. Nov., 311
- Problems of Teaching Mathematics in the Schools of England. A. Hooper. Oct., 263
- Psychological Points of View on the Teaching of Arithmetic. H. V. Baravalle. Dec., 341
- Readiness in Mathematics. Charles O. Richter. Feb., 68
- Schools and Colleges Face a Challenge. J. M. Bledsoe. Nov., 309
- Snow White and the Seven Dwarves. Alice E. Smith. Jan., 27
- State Representatives of the National Council. Apr., 181
- Student Attitude As a Factor in the Mastery of Commercial Arithmetic. Albert L. Bilig. Apr., 170
- The CAA-NYC Aviation Operations Institute. Lillian Moore. Dec., 358
- The Duodecimal System. W. C. Janes. Dec., 365
- The First Report of the Commission on Post-War Plans. May, 226
- The Formula—The Case of Algebra. Abraham J. Van Zyl. Dec., 368
- The Teaching Objectives in a First Course in the Calculus. James E. Parker. Dec., 347
- The Hyperbolic Analogues of Three Theorems on the Circle. Joseph B. Reynolds. Nov., 301
- The In-Service Training of Mathematics Teachers. Nanette R. Blackiston. May, 202
- The Latent Proportional Parts Table in Ordinary Interpolation. Wm. Fitch Cheney, Jr. Nov., 304
- The Old Time Religion. Evan A. Nason. Apr., 158
- The Place of Experimentation in Plane Geometry. Harry Sitomer. Mar., 122
- The Progressive Nature of Learning in Mathematics. William A. Brownell. Apr., 147
- The Wind Star of Air Navigation. Ralph Calvert. Apr., 173
- Ungraded Classes for Superior Pupils. Burr D. Coe. Feb., 81
- Why Mechanical Manipulation. William S. Tobey. May, 215

BOOK REVIEWS

- Levy, Sophia H. Introductory Artillery Mathematics and Anti-aircraft Mathematics. Mar., 138

THE ALGEBRA OF OMAR KHAYYAM

By DAOUD S. KASIR, Ph.D.

The author of the *Rubaiyat* was also an astronomer and mathematician. This work presents for the first time in English a translation of his algebra. In the introduction, Mr. Kasir traces the influence of earlier Greek and Arab achievements in mathematics upon the algebra of Omar Khayyam and in turn the influence of his work upon mathematics in Persia in the Middle Ages. The translation is divided into chapters, and each section is followed by bibliographical and explanatory notes. Price 50¢, postpaid.

THE MATHEMATICS TEACHER, 525 West 120th Street, New York, N.Y.

The National Council of Teachers of Mathematics

Organized 1920—Incorporated 1928

Honorary President

*H. E. Slaught, Chicago, Ill., 1936-1937

Presidents

1. C. M. Austin, Oak Park, Ill., 1920
2. J. H. Minnich, Philadelphia, Pa., 1921-1923
3. Raleigh Schorling, Ann Arbor, Mich., 1924-1925
4. Marie Gule, Columbus, Ohio, 1926-1927
5. Harry C. Barber, Exeter, N. H., 1928-1929
6. John P. Everett, Kalamazoo, Mich., 1930-1931
7. William Betz, Rochester, N. Y., 1932-1933
8. J. O. Hassler, Norman, Okla., 1934-1935
9. Martha Hildebrandt, Maywood, Ill., 1936-1937
10. H. C. Christofferson, Oxford, Ohio, 1938-1939
11. Mary A. Potter, Racine, Wis., 1940-1941
12. Rolland R. Smith, Springfield, Mass., 1942-1943
13. F. Lynwood Wren, Nashville, Tenn., 1944-45

Vice-Presidents

1. H. O. Rugg, New York City, 1920
2. E. H. Taylor, Charleston, Ill., 1921
3. Eula Weeks, St. Louis, Mo., 1922
4. Mable Sykes, Chicago, Ill., 1923
5. Florence Bixby, Milwaukee, Wis., 1924
6. Winnie Daley, New Orleans, La., 1925
7. W. W. Hart, Madison, Wis., 1926
8. C. M. Austin, Oak Park, Ill., 1927-1928
9. Mary S. Sabin, Denver, Colo., 1928-1929
10. Hallie S. Poole, Buffalo, N. Y., 1929-1930
11. W. S. Schlauch, New York City, 1930-1931
12. Martha Hildebrandt, Maywood, Ill., 1931-1932
13. Mary A. Potter, Racine, Wis., 1932-1933
14. Ralph Beatley, Cambridge, Mass., 1933-1934
15. Allan R. Congdon, Lincoln, Neb., 1934-1935
16. Florence Brooks Miller, Shaker Heights, Ohio, 1935-1936
17. *Mary Kelly, Wichita, Kans., 1936-1937
18. John T. Johnson, Chicago, Ill., 1937-1938
19. Ruth Lane, Iowa City, Iowa, 1938-1939
20. E. R. Breslich, Chicago, 1939-1940
21. F. L. Wren, Nashville, Tenn., 1940-1941
22. R. L. Morton, Athens, Ohio, 1941-1942
23. Dorothy S. Wheeler, Hartford, Conn., 1942-1943
24. Edwin G. Olds, Pittsburgh, Pa., 1943-1944
25. Edith Woolsey, Minneapolis, Minn., 1944-45

Secretary-Treasurers

- J. A. Foberg, Chicago, Ill., 1920-1922, 1923-1926, 1927, 1928 (Appointed by Board of Directors)
- Edwin W. Schreiber, Ann Arbor, Mich., and Macomb, Ill., 1929- (Appointed by the Board of Directors)

Committee on Official Journal

- John R. Clark, Editor, 1921-1928
- W. D. Reeve, Editor, 1928-
- Vera Sanford, 1929-
- *H. E. Slaught, 1928-1935
- W. S. Schlauch, 1936-

Directors

- Marie Gule, Columbus, Ohio, 1920-1922, 1928-1930, 1931-1933
- Jonathan Rorer, Philadelphia, Pa., 1920-1922
- Harry Wheeler, Worcester, Mass., 1920-1921
- W. A. Austin, Fresno, Cal., 1920-1921
- W. D. Reeve, Minneapolis, Minn., 1920, 1926-1927
- W. D. Beck, Iowa City, Iowa, 1920
- *Orpha Worden, Detroit, Mich., 1921-1923, 1924-1927
- C. M. Austin, Oak Park, Ill., 1921-1923, 1924-1927, 1930-1932, 1940-1942
- Gertrude Allen, Oakland, Cal., 1922-1924
- W. W. Rankin, Durham, N. C., 1922-1924
- Eula Weeks, St. Louis, Mo., 1923-1925
- W. C. Eells, Walla Walla, Wash., 1923-1925
- *Harry English, Washington, D. C., 1925-1927, 1928-1930
- Harry C. Barber, Boston, Mass., 1925-1927, 1930-1932, 1933-1935
- *Frank C. Touton, Los Angeles, Cal., 1926-1928
- Vera Sanford, New York City, 1927-1928
- William Betz, Rochester, N. Y., 1927-1929, 1930-1931, 1934-1936, 1937-1939
- Walter F. Downey, Boston, Mass., 1928-1929
- Edwin W. Schreiber, Ann Arbor, Mich., 1928-1929
- Elizabeth Dice, Dallas, Tex., 1928, 1929-1931
- J. O. Hassler, Norman, Okla., 1928, 1929-1931, 1933, 1941-1943
- John R. Clark, New York City, 1929-1931
- Mary S. Sabin, Denver, Colo., 1929-1930, 1931-1933
- J. A. Foberg, California, Pa., 1929
- C. Louis Thiele, Detroit, Mich., 1931-1933
- * Deceased.
- *Mary Kelly, Wichita, Kans., 1932
- John P. Everett, Kalamazoo, Mich., 1932-1934
- Elsie P. Johnson, Oak Park, Ill., 1932-1934
- Raleigh Schorling, Ann Arbor, Mich., 1932-1934
- W. S. Schlauch, New York City, 1933-1935
- H. C. Christofferson, Oxford, Ohio, 1934-1936, 1937
- Edith Woolsey, Minneapolis, Minn., 1934-1936, 1937-1939
- Martha Hildebrandt, Maywood, Ill., 1934-1935, 1938-39
- M. L. Hartung, Madison, Wis., 1935-1937, 1938-1940
- Mary A. Potter, Racine, Wis., 1935-1937
- Rolland R. Smith, Springfield, Mass., 1935-1937, 1938-1940
- E. R. Breslich, Chicago, Ill., 1936-1938
- L. D. Haertter, Clayton, Mo., 1936-1938
- Virgil S. Mallory, Montclair, N. J., 1936-1938, 1939-1941
- Kate Bell, Spokane, Wash., 1938-1940, 1941-1943
- A. Brown Miller, Cleveland, Ohio, 1939-1941, 1941-1943
- Dorothy Wheeler, Hartford, Conn., 1939-1941
- Hildegard Beck, Detroit, Mich., 1940-1942, 1943-1945
- H. C. Charlesworth, Denver, Colo., 1940-1942, 1943-1945
- L. H. Whiteraft, Muncie, Ind., 1941-1943
- A. R. Congdon, Lincoln, Nebr., 1941-1943
- Ina E. Holroyd, Manhattan, Kans., 1941-1943
- Veryl Schutt, Washington, D. C., 1943-1945
- E. H. C. Hildebrandt, Evanston, Ill., 1944-1946
- C. N. Shuster, Trenton, N. J., 1944-1946
- Ruth W. Stokes, Rock Hill, S. C., 1944-1946